PRODUCT OVERVIEW

Power Quality Analyzer utilizes a high-performance multi-core platform and an embedded operating system. It integrates functions such as harmonic analysis, waveform sampling, voltage dip/swell/interruption detection, flicker monitoring, voltage unbalance monitoring, event recording, and measurement control.The APView complies with standards such as IEC 61000-4-30 Ed3.1 Class A, IEC 62053 Class 0.2S. It is suitable for 110kV and below substation and is widely used in industries such as semiconductor, petrochemical, steel, hospitals, data centers, and transportation buildings, as well as in renewable energy like photovoltaic, energy storage, and wind power.

Technical Characteristics





Type		APView500	APView400	APView350
LCD		5 inches, color	5 inches, color	4.3 inches, color
Power supply		AC/DC88V~264V, DC48V	AC/DC88V~264V, DC24/48V	AC/DC88V~264V, DC24/48V
Sampling frequency 50/60 Hz		51.2kHz	51.2kHz	51.2kHz
AC input		8*U+8*I	4*U+4*I	4*U+4*I
Voltage input		0~456V AC	0~680V AC	0~680V AC
Current input		0~6A AC	0~6A AC	0~6A AC
Digital inputs/outputs		22DI+16DO	5DI+5DO	5DI+3DO
Memory size		32GB	32GB	32GB
IEC 61000-4-30		Class A	Class A	Class A
Accuracy	Voltage[1]	±0.1% U_N	±0.1%U_N	±0.1%U_N
	Current[2]	0~0.1I_N: ±0.5% >0.1I_N: ±0.1%	0.01I_N~0.05I_N: ±1% >0.05I_N: ±0.5%	0.01I_N~0.05I_N: ±1% >0.05I_N: ±0.5%
	Frequency	±0.001Hz	±0.001Hz	±0.001Hz
	Power	±0.2%	±0.2%	±0.2%
Steady	Voltage deviation	■	■	■
	Frequency deviation	■	■	■

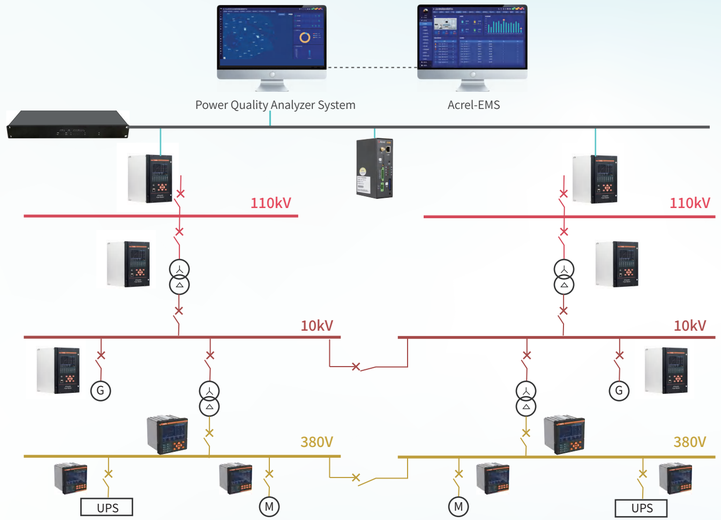
Type		APView500	APView400	APView350
Steady	Current Unbalance	■	■	■
	Voltage Unbalance	■	■	■
	Voltage fluctuation	■	■	■
	Flicker	■	■	■
	Harmonic	2~63rd (THD,TDD,Crest-factor, K-factor)	2~63rd (THD,TDD,Crest-factor, K-factor)	2~63rd (THD,TDD,Crest-factor, K-factor)
	Interharmonic	0.5th~62.5th	0.5th~62.5th	0.5th~62.5th
	High-frequency harmonic	2.5k~8.9kHz	2.5k~8.9kHz	2.5k~8.9kHz
	DC component	—	■	■
	Rapid voltage change	■	■	■
	Inrush current	■	■	■
Temporary	Voltage dip	■	■	■
	Voltage interruption	■	■	■
	Voltage swell	■	■	■
Transient	Transient Voltage	20μs	20μs	○
	Transient Current	20μs	20μs	○
Power quality assessment		■	■	■
ITIC		■	■	■
SEMI F47		■	■	■
Disturbance Direction Detection		■	■	■
Real-time waveform		■	■	■
Web server		■	■	■
FTP Server		■	■	■
Data and Event Recorders	Fault recording	■	■	■
	Timed recording	■	■	■
	Manual recording	■	■	■
	COMTRADE	■	■	■
	PQDIF	■	■	■
	SOE	5000	5000	5000
Rear Port	RS-485 port	3	2	2
	Ethernet port	4	2	2
	USB	■	■	■
Timing	IRIG-B	■	■	■
	SNTP	■	■	■
Protocol	Modbus RTU	■	■	■
	Modbus TCP	■	■	■
	IEC 61850	○	○	○

Note: ■ means with this function, ○ means the function is optional, —means without this function.

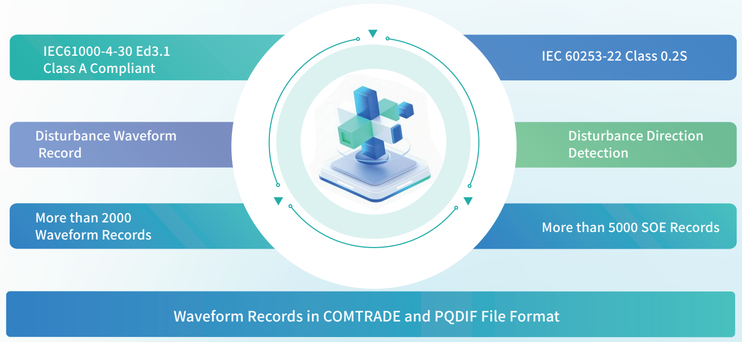
[1] Measurement uncertainty calculation: $\frac{U-U_{set}}{U_N}$ X100% ,
U:Measured Voltage ; U_{set}:Given Voltage ; U_N :Nominal Voltage

[2] Measurement uncertainty calculation: $\frac{I-I_{set}}{I_{set}}$ X100% ,
I:Measured Current ; I_{set} :Given Current ;

Application

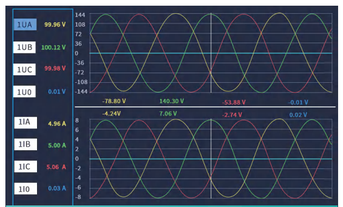


Power Quality Features

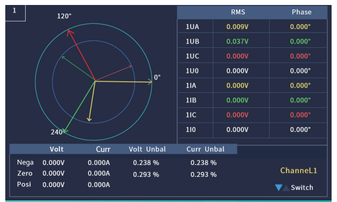


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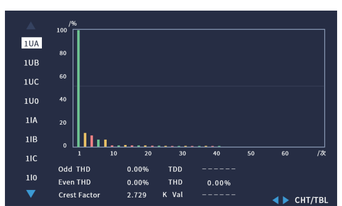
Data and Event Records



Real-time waveform



Phasors



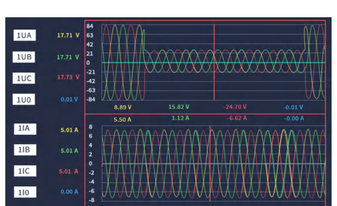
Harmonic



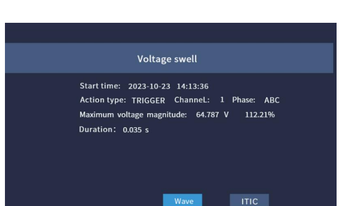
Voltage Fluctuations/ Flicker



Voltage dip



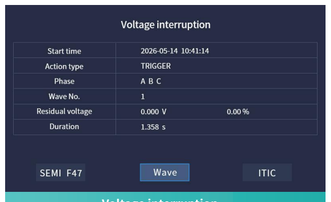
Voltage dip waveform



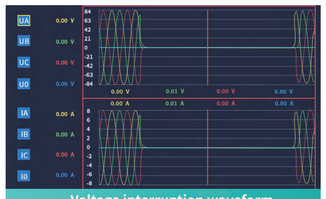
Voltage swell



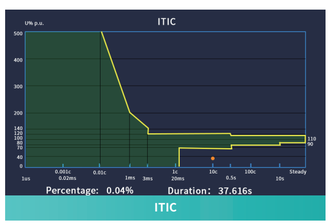
Voltage swell waveform



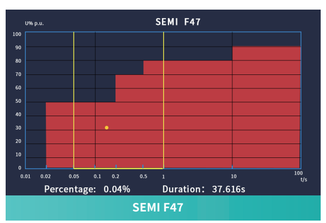
Voltage interruption



Voltage interruption waveform



ITIC



SEMI F47

Certificate



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